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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/508,870	12/10/2004	Alain Domard	3952-72	8468
23117	7590 06/05/2006		EXAM	INER
	'ANDERHYE, PC GLEBE ROAD, 11TH FI	GRAY, JILL M		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1774	
			DATE MAILED: 06/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/508,870	DOMARD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jill M. Gray	1774				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a h. eriod will apply and will expire SIX (6) MON tatute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 0	8 March 2006.					
2a)⊠ This action is FINAL . 2b)□						
3) Since this application is in condition for all	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-21 is/are pending in the application	tion.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6 and 8-20</u> is/are rejected.	6)⊠ Claim(s) <u>1-6 and 8-20</u> is/are rejected.					
7) Claim(s) 7 and 21 is/are objected to.	.,					
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exan	niner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to	• ,					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) Ine oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docum						
3. Copies of the certified copies of the	•	received in this National Stage				
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,	ranaivad				
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE 		s)/Mail Date Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	—·				

Application/Control Number: 10/508,870 Page 2

Art Unit: 1774

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6 and 8-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Abstract JP2127596 (the abstract) in view of Glasser et al, 5,900,479 (Glasser), for reasons of record.

Response to Arguments

3. Applicant's arguments filed March 8, 2006 have been fully considered but they are not persuasive.

Applicant's argue that the JP '596 reference teaches impregnation of the chitosan solution on the paper, thus, no "coating" of the substrate occurs and that more chitosan is needed in JP '596 as it is spread all over the thickness of the base material.

In this regard, the claims do not exclude impregnation and, contrary to applicants' assertions, impregnation does in fact result in a coating on the surface of the substrate.

Moreover, there is no clear factual evidence on this record to support applicant's allegation that more chitosan is needed due to impregnation.

Applicants argue that the consistency taught by the examples in the JP '596 reference is very low, whereas in the present invention, the consistency of the coating solution is 60% and above up to 30%.

Art Unit: 1774

In this regard, the JP '596 reference teaches supports covered with a chitosan based coating, essentially as claimed by applicants. It is to be expected that changes in concentration are unpatentable modifications. In the instant case, the general conditions of the claims are taught in the prior art. Therefore, it is not inventive to discover the optimum or workable ranges by routine experimentation.

Applicants argue that Glasser, while relating to the formation of chitosan films, is not done by using low viscosity chitosan, and does not teach the use of hydrolysis so as to reduce the molar mass of the chitosan as is accomplished according to the present invention.

In this regard, Glasser is relied upon for all that he would have reasonably imparted to one of ordinary skill in the art at the time the invention was made, namely, the inclusion of citric acid and the utilization of chitosan having a molar mass within applicants' claimed range.

Allowable Subject Matter

4. Claims 7 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Art Unit: 1774

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill M. Gray whose telephone number is 571-272-1524. The examiner can normally be reached on M-Th and alternate Fridays 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JILM Gray